

There are 5 crime types used with PredPol:

- 1) Commercial Burglary
- 2) Residential Burglary
- 3) Vehicle Prowl
- 4) Robbery (*does not include bank robbery or business strong-arm robbery*)
- 5) Motor Vehicle Theft

Why these crimes?

First, research has shown these crime types are a good fit with the PredPol algorithm.

Secondly, Tacoma is 4 times higher than the national average in motor vehicle theft and 2 times higher the national in the other categories (*Note: below table uses UCR*).

| 5 Year Average Crime Rates | United States | Tacoma |
|---------------------------------|---------------|---------|
| Robbery per 100,000 | 124.89 | 274.63 |
| Burglary per 100,000 | 704.42 | 1441.28 |
| Larceny-Theft per 100,000 | 2033.16 | 4204.48 |
| Motor Vehicle Theft per 100,000 | 254.34 | 1049.99 |

2012 compared to 2013 (phased rolled of PredPol began March 2013)

- Commercial Burglary – **4.6% Increase**
- Residential Burglary – **10.7% Decrease**
- Robbery – **1.6% Decrease**
- Vehicle Prowl – **0.1 % Decrease**
- Motor Vehicle Theft – **0.6 % Increase**

Note:

At present, the crime rate is not a strong indicator of PredPol effectiveness due the short time period for full implementation of PredPol deployment.

While NIBRS shows 2.9% Increase in Robbery, the above PredPol stats shows Robbery at a 1.6% Decrease. This difference is because PredPol only uses a subset of robbery types (does not include Bank Robbery or Business Strongarm) whereas NIBRS stats uses all the robbery types including Bank Robbery and Business Strongarm. Business Strongarm is not included because these are predominately “shoplifts gone bad” but comprises approximately a quarter of all robbery incidents in NIBRS. Bank Robbery falls under a different type of crime pattern and better-fitted algorithms are used for prediction.

Additionally, NIBRS shows Burglary/Break-ins as a 7.6% Decrease but when this aggregate category is separated out in Residential Burglary and Commercial Burglary crime types, there is a 10.7% Decrease in Residential Burglary and a 4.6% Increase in Commercial Burglary.